SECTION THRU INTEGRAL ABUTMENT

-Bk. of Abut.

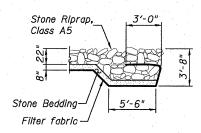
*Included in the cost of Pipe Underdrains for Structures.

Note:

Stone Riprap

Class A5

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



STONE RIPRAP FLANK DETAIL

DESIGNED B.G.H. CHECKED L.D.G. DRAWN K.H.L.

B.G.H.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		130	130
Stone Riprap, Class A5	Sq. Yd.		521	521
Filter Fabric	Sa. Yd.		521	521
Removal of Existing Structures No. 2	Each		321	1
Structure Excavation	Cu. Yd.		000	
Floor Drains	Each	8	226	226
	Cu. Yd.	0		8
Concrete Structures			61.5	61.5
Concrete Superstructure	Cu. Yd.	189.0		189.0
Bridge Deck Grooving	Sq. Yd.	386		386
Concrete Encasement	Cu. Yd.		6.6	6.6
Protective Coat	Sq. Yd.	488		488
Furnishing and Erecting Structural Steel	L. Sum	0.2		0.2
Stud Shear Connectors	Each	972		972
Reinforcement Bars, Epoxy Coated	Pound	43,510	7,180	50,690
Bar Splicers	Each	486		486
Furnishing Steel Piles HP 14x73	Foot		940	940
Driving Piles	Foot		940	940
Test Pile Steel HP 14x73	Each		2	2
Temporary Sheet Piling	Sq. Ft.		1,217	1,217
Name Plates	Each	1	. ———	1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.		76	76
Pipe Underdrains for Structures 4"	Foot		132	132

- *** Quantity includes top of concrete surface of bridge deck and approach slabs end to end and the top and inside vertical faces of the parapets and curbs.
- *** Reinforcement and Bar Splicer quantities for Bridge Approach Slabs and Footings are included in Superstructure quantities.

GENERAL NOTES

- 1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3_4 in. ϕ , holes $^{15}_6$ in. ϕ , unless otherwise noted.
- 2. Calculated weight of Structural Steel = 3,100 lbs. (M270, Grade 36) = 35,520 lbs. (M270, Grade 50)
- 3. No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 7. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
- 8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 9. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- 10. Slipforming of the parapets is not allowed.

GENERAL DATA

SHEET NO. 2	F.A.S. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	Š
	739	1-2BR			GREENE	150	84	3
21 SHEETS		S.N. 031-0040			CONTRACT NO. 76410			
	FED. RO	AD DIST. NO.	ILLINOIS	FED. AID	PROJECT			1

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